

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 108P147

Luminaire Tested: **2GC-332A19/156-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 108P147  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-332A19/156-PAF  
Description: 2 X 4 Recessed Convertible Body Luminaire with a  
.156 pattern 19 acrylic lens.  
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 88.5

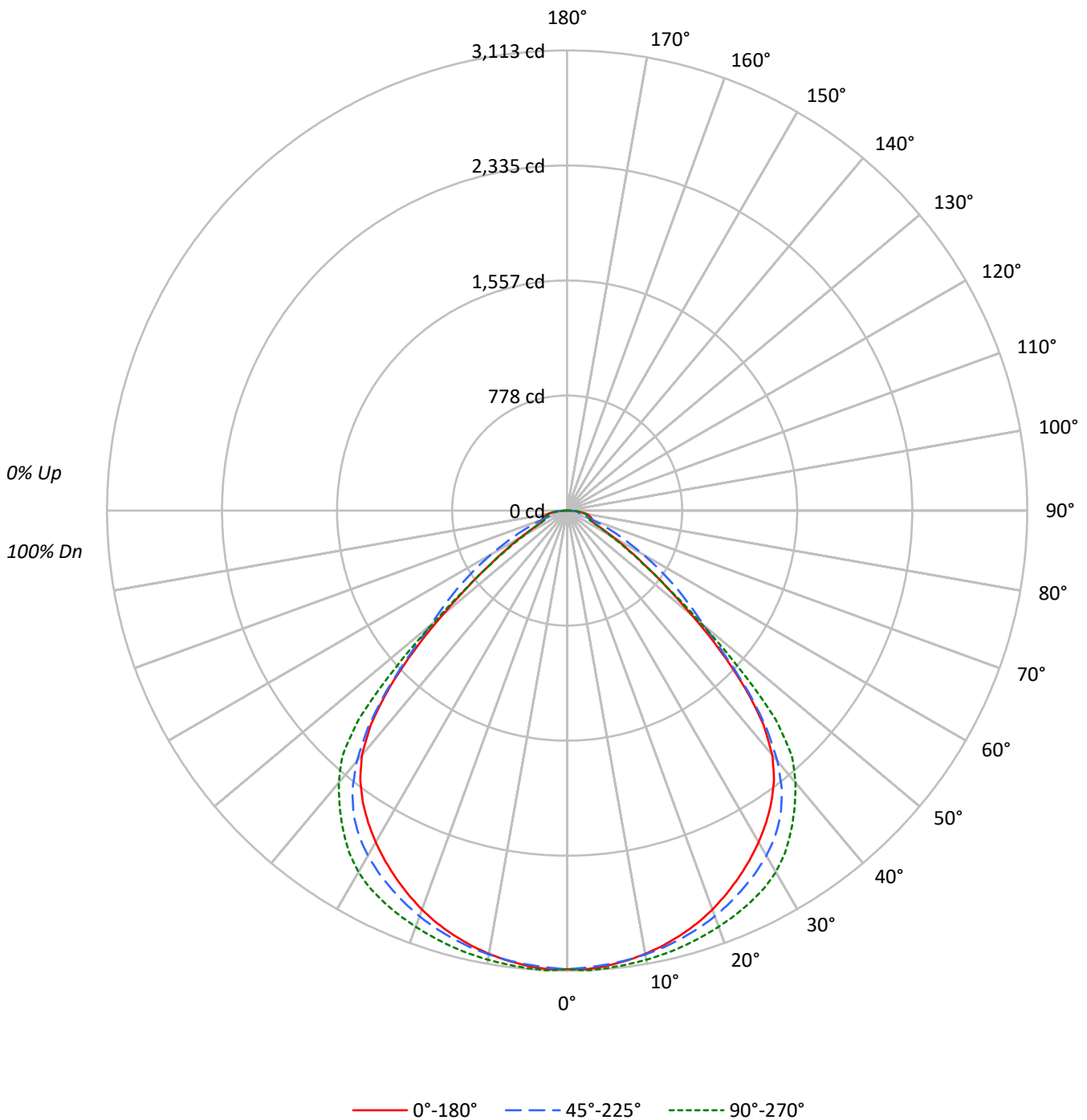
**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 6743.4 lumens  
Efficiency: 80.3%  
Efficacy: 78.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.33 / 1.31  
Luminous Opening: Rectangular (W 1.78' x L: 3.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 86.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: 108P147

CATALOG NUMBER: 2GC-332A19/156-PAF

### Luminous Intensity Polar Plot





TEST NUMBER: 108P147

CATALOG NUMBER: 2GC-332A19/156-PAF

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	96	96	96	96	93	93	93	93	89	89	89		85	85	85		82	82	82	80
1	89	86	83	80	87	84	81	79	81	78	76		77	76	74		75	73	72	70
2	82	77	72	68	80	75	71	67	72	69	66		70	67	64		68	65	63	61
3	76	69	63	59	74	68	62	58	65	61	57		63	59	56		61	58	55	54
4	70	62	56	51	69	61	55	51	59	54	50		57	53	49		56	52	49	47
5	65	56	50	45	64	55	49	45	54	48	44		52	47	44		51	47	43	42
6	61	51	45	40	59	50	44	40	49	44	39		48	43	39		46	42	39	37
7	57	47	40	36	55	46	40	36	45	39	35		44	39	35		43	38	35	33
8	53	43	37	32	52	42	36	32	41	36	32		40	35	32		39	35	32	30
9	49	39	33	29	48	39	33	29	38	33	29		37	32	29		37	32	29	27
10	46	37	31	27	45	36	30	27	35	30	27		35	30	26		34	30	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4918	4918	4918
5°	4919	4905	4943
10°	4901	4907	4967
15°	4877	4916	5003
20°	4844	4927	5053
25°	4795	4932	5119
30°	4740	4932	5168
35°	4661	4872	5112
40°	4465	4577	4974
45°	3833	3880	4467
50°	2715	2969	2880
55°	1763	2448	1730
60°	1141	1867	1068
65°	743	1331	724
70°	825	839	760
75°	980	582	888
80°	1223	776	1159
85°	1218	1273	1346



TEST NUMBER: 108P147

CATALOG NUMBER: 2GC-332A19/156-PAF

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	293.9	4.4	3.5	0°	3103	3103	3103	3103	3103	
10°-20°	848.1	12.6	10.1	5°	3092	3078	3083	3101	3107	294
20°-30°	1303.4	19.3	15.5	15°	2972	2969	2996	3035	3049	839
30°-40°	1568.4	23.3	18.7	25°	2742	2758	2820	2897	2927	1264
40°-50°	1366.2	20.3	16.3	35°	2409	2437	2518	2604	2642	1500
50°-60°	737.1	10.9	8.8	45°	1710	1747	1731	1928	1993	1289
60°-70°	354.9	5.3	4.2	55°	638	852	886	847	626	598
70°-80°	193.3	2.9	2.3	65°	198	410	355	415	193	223
80°-90°	78.0	1.2	0.9	75°	160	236	95	238	145	169
90°-100°	0.0	0.0	0.0	85°	67	85	70	80	74	69
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	2445.4	36.3	29.1	165°	0	0	0	0	0	0
0°-40°	4013.8	59.5	47.8	175°	0	0	0	0	0	0
0°-60°	6117.1	90.7	72.8	180°	0	0	0	0	0	0
0°-90°	6743.4	100.0	80.3							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	6743.4	100.0	80.3							



TEST NUMBER: 108P147

CATALOG NUMBER: 2GC-332A19/156-PAF

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3103	3103	3103	3103	3103
2.5°	3105	3090	3093	3108	3113
5°	3092	3078	3083	3101	3107
7.5°	3071	3060	3068	3090	3097
10°	3045	3034	3049	3076	3086
12.5°	3012	3004	3026	3058	3070
15°	2972	2969	2996	3035	3049
17.5°	2927	2927	2962	3006	3024
20°	2872	2878	2921	2974	2996
22.5°	2810	2822	2873	2939	2964
25°	2742	2758	2820	2897	2927
27.5°	2669	2688	2762	2848	2883
30°	2590	2612	2695	2789	2824
32.5°	2504	2529	2617	2708	2744
35°	2409	2437	2518	2604	2642
37.5°	2299	2329	2387	2479	2528
40°	2158	2190	2212	2341	2404
42.5°	1966	1996	1994	2176	2251
45°	1710	1747	1731	1928	1993
47.5°	1409	1477	1443	1582	1579
50°	1101	1229	1204	1274	1168
52.5°	842	1024	1038	1039	851
55°	638	852	886	847	626
57.5°	482	705	735	699	462
60°	360	586	589	584	337
62.5°	263	487	463	491	250
65°	198	410	355	415	193
67.5°	174	353	259	355	164
70°	178	313	181	310	164
72.5°	175	275	129	274	162
75°	160	236	95	238	145
77.5°	148	195	81	197	134
80°	134	152	85	154	127
82.5°	106	114	87	115	107
85°	67	85	70	80	74
87.5°	30	46	36	43	36
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: 108P147

CATALOG NUMBER: 2GC-332A19/156-PAF

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)